Problem R-06J (C_{9}H_{18}O)

270 MHz NMR spectrum in CDCl_{3}/C_{6}D_{6}

Source: R. Dykstra/B. Gudmundsson/Reich (digitized hard copy)

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(a) Do qualitative (but correct) solutions on the two reproductions of the multiplet at δ 5.1 below (draw a coupling tree for the two alternative solutions of this multiplet).

(b) Do a quantitative analysis. Use the frequencies given. If more than one solution is possible, show them both, and use appropriate criteria to distinguish the two. Show your work, and tabulate your data in an easily readable form.

(c) Show J and δ on the structure.
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